## TEAC

TC-FR(T)□□N/KN-G6

Tension Load Cell

TT-FR(T)□□N/KN-G6

Features

# Compact & Universal

Body Materia

## Stainless Steel



Compression Load Cell (TC-FR) / Tension Load Cell (TT-FR)

**Benefit** 

Easy to install on the existing facilities/systems.

Vacuum compatible

Works in vaccum state. (TC-FR custom design model)

Durable Robot Cable standardized

Enhanced durability against bending that occurs in moving parts with frequent repetitive motion, such as industrial robots and machine tools. High stability and reliability are realized. Plug & Play with built-in TEDS

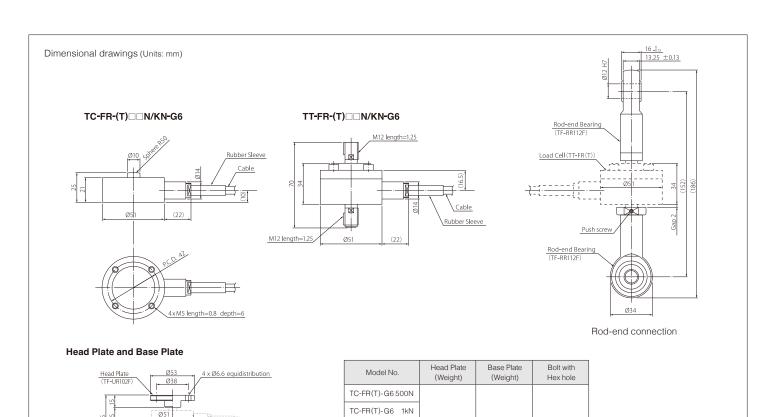
With the TD series indicators, equivalent input calibration, likely to forget in manual setting, can be performed automatically and help prevetion.

(See the reverse page for detail on TEDS)

Specifications

Туре	Compression Load Cell						TensionLoad Cell				
	TC-FR(T)□□N/KN-G6						TT-FR(T)□□N/KN-G6				
Model	TEDS (Embeded in the body)  RoHS (10 substances)					the body)			TEDS	(Embeded in	n the body)
						RoHS (10 substances)				ces)	
Rated Capacity (R.C.)	500N	1kN	2kN	5kN	10kN	20kN	500N	1kN	2kN	5kN	10kN
Natural Frequency	3.6kHz	5.0kHz	6.0kHz	7.0kHz	10.0kHz	TBA*	3.6kHz	5kHz	6kHz	7kHz	10kHz
Weight	230g	230g	230g	230g	230g	230g	0.24kg	0.24kg	0.24kg	0.24kg	0.24kg
Safe overload rating	150 % R.C.						150 % R.C.				
Rated Output (R.O.)	2mV/V ±1%						2mV/V ±0.5%				
Linearity	0.15% R.O.						0.15% R.O.				
Hysterisis	0.1% R.O.						0.1% R.O.				
Repeatability	0.05% R.O.						0.05% R.O.				
Safe Excitation Voltage	15V						15V				
Input Terminal Resistance	425Ω±50Ω						425Ω ±50Ω				
Output Terminal Resistance	350Ω ±5Ω						350Ω ±5Ω				
Insulation Resistance	1000MΩ (DC 50V)						1000MΩ (DC 50V)				
Compensated Temperature Range	-10°C to 70°C						-10°C to 70°C				
Permissible Temperature Range	−10°C to 70°C						−10°C to 70°C				
Temperature Effect on Zero Balance	0.05% R.O. / 10°C						0.05% R.O. / 10°C				
Temperature Effect on Output	0.1% R.C. / 10°C						0.05% R.C. / 10°C				
Cable	Φ6, 6-core shielded, 5m direct connection robot cable with bare lead wires						Φ6, 6-core shielded, 5m direct connection robot cable with bare lead wires				
Mounting Method	Screw hole, Base Plate						Male screw (M12)				
Body Material	Stainless Steel						Stainless Steel				

<sup>\*</sup>Please contact us for more details.



TC-FR(T)-G6 2kN

TC-FR(T)-G6 5kN

TC-FR(T)-G6 10kN

TC-FR(T)-G6 20kN

#### Related Products (Indicators and Signal Conditioners)





92 x 45 mm Panel opening size



TF-LR060F

(approx. 0.6kg)

M5 x 12



Color Graphics Digital Indicator

### **TD-9000T**

RS-485 model EtherNet/IP™ model CC-Link model

## High performance model with large LCD

Supporting two inputs, force sensor and displacement sensor, various comparison judgments function, and direct saving of waveform data onto large capacity internal memory.



c¶ us ( € CC-Link EtherNet/IP

Digital Indicator

4 x Ø6.6 equidistribution

4x M5 Bolt with Hex hole 12mm length

#### **TD-700T**

Standard model CC-Link model RS-485 model

## Excellent model with compact and high functionality

Supporting five key functions in one unit, numeric display, graph display, TEDS function, static strain display, and signal conditioner. This small and cost-effective TD-700T achieves equal or even higher performance to upper-class models, with high-visibility color LCD and various hold functions.



c¶us ( € CC-Link

Signal Conditioner

#### TD-SC1

TF-UR102F

(approx. 0.13kg)

D/A model RS-485 model

## Slim and light-weight signal conditioner

Supporting high-speed sampling of 20,000 times/second, PC-based configuration via USB connection, selectable network, and TEDS calibration function.



CC-Link EtherNet/IP\*

\* Under planning

Portable Digital Indicator

### **TD-01 Portable**

## On-site checking tool with versatility

Supporting various functions that equal to embeded systems, in hand-held size, allowing you to take measurements anytime anywhere, according to your purpose.



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